MONTGOMERY COUNTY FIRE AND RESCUE SERVICE
DRIVER/OPERATOR TRAINING PROGRAM

APPARATUS TRAINING COMPETENCIES
Rescue Engine 709

Trainee Name: **ID#:** **Date:**

Station/Shift or Dept:

Trainer Name:

Station OIC Name:

Select the Check-out being conducted below:
(See P&P 23-07AMI for Requirements)

☐ **Familiarization Check-out** (Complete Sections 1 thru 14) Current tandem axle drivers.

☐ **Performance Operational Check-out** (Complete Sections 1 thru 12 and Section 14) All others

Unit ID: **RE709** **Stock #: 07-5889** **Make: 4 Guys/Spartan** **Year: 2007**

Competencies Completion Signatures

Trainee Signature: _____ **Date:** _____

Trainer Signature: _____ **Date:** _____

Station OIC Signature: _____ **Date:** _____

LFRD Chief or Designee Signature: _____ **Date:** _____

Competencies

Section	Competency	Trainer Signature	Date
1.0	**Pre-Requisites**		
1.1	Valid Maryland Class "B" License or out-or-state equivalent or Class "B" Driver Course as required by FRC Policy 23-07AMII.		
1.2	MCFRS Certified Engine Driver		
1.3	MCFRTA Rescue Technician Course or equivalency.		

Apparatus Training Competencies

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1.4	MCFRS Certified Tanker Driver		
2.0	**Vehicle Inspection and Driving Preparation (NFPA 1002)**		
2.1	Trainee will explain how to perform a complete emergency vehicle inspection, make minor adjustments, schedule routine maintenance, and complete required documentation.		
2.2	Trainee will successfully identify major motor vehicle components.		
2.3	Trainee will successfully demonstrate how to tilt the cab and restore it to a full nested position.		
2.4	Trainee will successfully explain precautions to take before moving the vehicle.		
2.5	Trainee will successfully conduct an inspection at the station using the inspection checklist.		
2.6	Trainee will explain the apparatus and equipment defect reporting procedure for assigned station.		
2.7	Trainee will identify the vehicle height, weight, length and width of the vehicle.		
3.0	**Overhead Door Operation**		
3.1	The trainee will demonstrate knowledge of how the overhead doors at Station 9 operate.		
	Explain the use of the overhead pull cords, the meaning of the door light signals, and the door timer delay.		
	Explain the use of the remote control for the overhead doors.		
	Explain the use of the traffic light controller. (Pending availability of the traffic light controller)		
4.0	**Fueling Procedures**		
4.1	The trainee will demonstrate knowledge of the proper procedure for fueling the unit at Station 9.		

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4.2	The trainee will demonstrate knowledge of the proper fueling procedure at a County Fuel Depot.		
5.0	**Ground Ladders**		
5.1	Trainee will be able to identify and be familiar with all ground ladders carried on the apparatus.		
	A) General defects		
	B) Damage		
	C) Halyards condition		
	D) Heat Sensor condition		
6.0	**Electrical Systems & Components**		
6.1	Trainee will demonstrate proficiency in the knowledge and use of the following electrical components (as applicable):		
6.2	Onboard Generator		
	a) Capacity		
	b) Operation		
6.3	All Portable Generators		
	a) Capacity		
	b) Operation		
	c) Fuel		
6.4	Trainee will demonstrate the use of the electrical winch on any of the four locations on the engine		
	a) capacity		
	b) controls		
6.5	Flood Lights		
6.6	Portable Lights		
6.7	Fans		
6.8	Electric Cord Reels		
	a) Length of Fixed Reels		
	b) Length of Portable Reels		
6.9	Reciprocating Saw		
	a) Type of Blade		
	b) Operation		
6.10	Trainee will demonstrate the knowledge and location of the electrical panel box.		
6.11	Trainee will demonstrate the use of the portable gas winch		

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	a) Limitations/Operation		
	b) Fuel		
7.0	**Apparatus Inventory**		
	Trainee will demonstrate knowledge of apparatus inventory.		
8.0	**Pneumatic Tools and Operation**		
	Trainee will demonstrate the use and operation of the airbags from a stationary source and a remote source		
8.1	Air Bags		
	a) Types, Sizes		
	b) Capacities		
	c) Use of the controls and airbags		
	d) Use of remote air and onboard air		
	d) Maintenance of controls and bags		
8.2	Air Hammer		
	a) Operation of tool and accessories		
	b) Maintenance		
8.3	Impact Tools		
	a) Set up and operation of		
	b) Maintenance of tools and lines		
9.0	**Gas Powered Equipment Operation And Maintenance**		
9.1	Trainee will demonstrate proficiency in the operation and maintenance of all gas powered equipment		
	A) Cutters Edge saw/ Chain Saw		
	B) PPV Fan		
	C) Honda Generator and Gen Light		
	D) Partner Saw		
	E) Portable Winch		
	1. Operation of saw utilizing all safety procedures		
	2. Type of fuel used in saw		
	3. Different blades used on saws and there use		
	4. Show how to change saw blade		

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	5. General Maintenance procedures		
10.0	**Hydraulic Tools and Equipment**		
10.1	Trainee will demonstrate proficiency in knowledge and use of the hydraulic rescue power tools		
10.2	On board power plant both electric and gas		
	a) Hydraulic fluid access and proper levels and types of fluid used		
	b) Lengths of hose and coils carried on units and limitations when running in series		
	c)Proper technique to connect hoses to plants and in line		
	d)Maintenance procedures on both electric and gas powered plants		
11.0	**CAFS Operation and Maintenance Procedure**		
11.1	Trainee will explain the Controls and pump panel indicators on the Hale CAFS Pump		
11.2	Trainee will describe the operation of the Pump gear box and it operation		
	a) Trainee will describe the basic maintenance items in regards to the pump gear box and the oil types and quantities		
	b) Trainee will explain the procedure to use during emergency operations and how to pump through the Q max pump		
11.3	Trainee will describe the Q max pump packings and any maintenance items associated with this portion of the pump		
11.4	Trainee will describe the Total pressure master relief valve operation		
	a) Trainee will demonstrate the operation of the TPM (total pressure master relief valve)		
	b)Trainee will explain the maintenance items the driver can do in regards to the TPM valve		
	c)Trainee will explain why the TPM valve should be reset to “0” after each use		
11.5	Trainee will describe the operation of the Master intake valve		

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	a) Trainee will briefly describe how the master intake valve is designed and what operates the valves		
11.6	Trainee will describe what the Hale Thermal Relief Valve is and how it operates		
	A) Trainee will identify the other back up components indicating the thermal relief valve has operated		
11.7	Trainee will explain the operation of the Environmentally Sensitive Primer on the Q Max pump		
	a) Trainee will describe the difference in the operation of the ESP primer versus the conventional rotary primers		
	b) Trainee will explain what type of primer is on the unit		
11.8	Trainee will explain the function of the 4 way priming valve and demonstrate its use		
11.9	Trainee will explain what the foam logix proportioner is and the type of gears that drive this pump		
11.10	Trainee will describe the pump air compressor and identify it on the pump		
	a) Trainee will explain how the water/oil heat exchanger operates and its purpose		
	b) Trainee will identify where the water/oil heat exchanger strainer is and how often this item should be checked		
	c) Trainee will explain the range the air compressor can produce		
11.11	Trainee will identify and explain how often the following maintenance items should be checked:		
	a) water from the air/oil separator and filters		
	b) inline foam concentrate strainers		
	c) water/oil heat exchange strainer		
	d) air compressor air filter		

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11.12	Trainee will demonstrate the operation of the Foamlogix Concentrate Injection Control		
	a) on/off button location and operation		
	b) informational button location and operation and what information can be obtained from the screen		
	c) the up and down arrow keys function and the optimal ranges we can operate in		
	d) the function of the bar graph		
	e) trainee will explain how to “0” the foam injection system		
11.13	Trainee will explain what the CAFS Pro Controller does		
	a) describe how the on/off button operates		
	b) trainee will explain what ranges the air compressor can operate in		
	c) trainee will identify the following items from the informational control items on the CAFS Pro Controller and the function of each		
	1) air flow		
	2)air/water ratio		
	3) compressor temperature		
	4)hours clock		
	d) trainee will describe how to obtain a wet to dry foam solution and how to do this		
11.14	Trainee will describe some of the limitations to CAFS operations		
11.15	Trainee will explain the 4 situations where CAFS can not be used		
11.16	Trainee will explain what slug flow is and how to prevent it		
	a) what chutter is and how to prevent it		

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12.0	**Plasma Cutter Operations and Maintenance**		
12.1	Demonstrate how to properly deploy and use the Plasma Cutter		
12.2	Identify the major maintenance issues with the Plasma cutter		
13.0	**Vehicle Stabilization**		
13.1	Trainee will demonstrate the Rescue 42 Struts system and its set up and use		
	a) Trainee will demonstrate the set up of the Rescue 42 struts		
13.2	Demonstrate the set up and use of the chains and come along		
14.0	**Driving Proficiency** (Familiarization Check-out) Must be current Tandem axle apparatus driver for this level.		
14.1	The trainee will successfully complete the cone course competencies.		
14.2	The trainee will successfully drive a 10 mile road course that includes both rural and urban road segments.		
15.0	**Driving Proficiency** (Performance Operational Check-out) Non-tandem axle drivers.		
15.1	The trainee will successfully complete the cone course competencies.		
15.2	The trainee will successfully complete a minimum of 8 hours of driving on public roadways. **(Attach the Driving Log to this form)**		
16.0	**LFRD Verification**		
16.1	Upon completion of the drivers training package the LFRD Chief or designee should review and approve trainees drivers status on RE709		
16.2	Obtain LFRD Chief or designee approval on attached authorization form		

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